

REMARKS

Applicants have carefully reviewed and considered the Office Action mailed on November 4, 2005, and the references cited therewith.

Claims 2-4, 6-9, 18, 21, 23, and 24 are amended, claims 1, 20, and 25-26 are canceled; as a result, claims 2-19, 21-24, 27-31 are now pending in this application.

Information Disclosure Statement

The information disclosure statement filed 6/27/05 was objected to not complying with 37 CFR 1.98(a) (2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed.

Legible copies of the cited documents are included along with this response to overcome the above objection.

' 112 Rejection of the Claims

Claims 3-8, 18-19, 21 and 22 were rejected under 35 USC ' 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention.

Amended claims 3, 18, and 21 are respectfully asserted to overcome the rejections. Claims 3, 18, and 21 should thus be found allowable, and such action is respectfully requested.

Claims 4-8, 19, and 22 are dependent on claims 3, 18, and 21, respectively, should therefore also to be found to be allowable, and such action is respectfully requested.

Claims 2-8 and 27-31 were rejected under 35 USC ' 112, first paragraph, as failing to comply with the enablement requirement.

Amended claim 2 and the pending claim 27 state "the received primary period and primary width updates can occur across or within a PWM signal boundary of a current PWM signal being generated". Support for how a predictable PWM signal is generated when the received primary period and primary width updates occurs across or within a PWM signal boundary of a current PWM signal can be found in the specification on page 10, lines 4-12 and

lines 15-21. On page 10, steps 530, 540, 550, and 560 disclose how the updates can occur when the received primary period and primary width across or within a PWM signal boundary.

Further, the 3-2 register configuration (i.e., the three period registers 105, 120, and 130 and the two width registers 110 and 125) with their control circuitry shown in FIG. 1 are used to achieve an undistorted PWM signal when the period and width updates occurs within or across a PWM signal boundary. In addition, support for the 3-2 register configuration can be found in the specification on pages 4-7.

In addition, FIG. 2 discloses how the undistorted PWM signal 205 can be obtained even when the period and width updates 210 and 215 occur within the first two time intervals and occur across in the subsequent intervals. Support for this can be found in the specification on page 7 line 25 to page 9 line 8.

Therefore, independent claims 2 and 27 should thus be found allowable, and such action is respectfully requested. Claims 3-8 and 28-31 which are dependent on claims 2 and 27, respectively, should therefore also be found to be allowable, and such action is respectfully requested.

Allowable Subject Matter

Claims 9-17, 23 and 24 were allowed. However, the claim must be amended if necessary to overcome any objection set forth above.

Claims 18, 19, 21 and 22 would be allowable if amended to overcome the 112 rejections set forth above.

Applicants have amended these claims accordingly. Reconsideration of these claims is respectfully requested.

Conclusion

Applicants respectfully submit that the claims 2-19, 21-24, and 27-31 are in condition for allowance and notification to that effect is earnestly requested. The Examiner is invited to telephone Applicants' attorney (603-888-7958) to facilitate prosecution of this application.


Respectfully submitted,

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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 24 day of January, 2006.

MEREDITH MESCHER

Name



Signature